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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/491,900	01/27/2000	M. Jason Welch	10991989-1	9214
22878	7590 12/26/2002			
AGILENT TECHNOLOGIES, INC. INTELLECTUAL PROPERTY ADMINISTRATION, LEGAL DEPT. P.O. BOX 7599 M/S DL429 LOVELAND, CO 80537-0599			EXAMINER	
			NGUYEN, DILINH P	
			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 12/26/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary District District			<u> </u>				
Examiner Saturation District National State District National St	•	Application No.	Applicant(s)				
DiLinh Nguyen The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available undow the provisiones of 37 CFA 1.138(a). In no event, homever, may a repty to binely filed and set 50 Kig MONTHS from the militing date of this communication. If the period for may be available undow the provisiones of 37 CFA 1.138(a). In no event, homever, may a repty to binely filed and 50 Kig MONTHS from the mailing date of this communication. If the period for may be available undow the provisiones of 37 CFA 1.138(a). In no event, homever, may a repty to binely filed and 50 Kig MONTHS from the mailing date of this communication. If the period for may be available undow the provisiones of 37 CFA 1.138(a). In no event, homever, may a repty to binely filed and 50 Kig MONTHS from the mailing date of this communication. If the period for mailing date of this communication. If the period for mailing date of this communication, and the period of the period for mailing date of this communication. If the period for mailing date of this communication, and the period of the period of this communication. Falles a repty within the sate of example of the period of the period of the period of the period of the mailing date of this communication. Falles a repty within the sate of sate of the period of the mailing date of this communication. Status This action is FINAL. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17.18 and 20 is fare pending in the application. 5) Claim(s) 1-17.18 and 20 is fare pending in the application. 5) Claim(s) 1-17.18 and 20 is fare elicited and period Quaylet and the period of the period Quaylet and period of the	Office Action Summary						
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DETAILED ACTION

Claim Objections

Claims 3-5 are objected to because of the following informalities:

- Regarding claim 3, the phrase "...a common area..." should be changed to
 "...said common area..."
- Regarding claim 4, the phrase "...a first area..." should be changed to "...said first area..."
- Regarding claim 5, the phrase "...a second area..." should be changed to "...said second area..."

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5 and 17-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art (Figs. 1-2) in view of Yoshitake (U.S. Pat. 6043704).
- Regarding claims 1 and 17, Applicant Admitted Prior Art disclose an integrated circuit (Figs. 1 and 2) comprising:
 - a first port 10-13 for outputting a signal;
 - a second port 14, 15, 16 and 17 for receiving the signal;

a common area 35 comprising an alignment link 30, 31, 32 and 33 for electrically connecting the first port with the second port;

the second port extends directly into the common area from a second area; the alignment link comprises a signal buffer for buffering a signal traveling along the alignment link between the first port and the second port. However, Applicant Admitted Prior Art (Figs. 1 and 2) fail to disclose the first port extends directly into the common area from a first area.

Yoshitake discloses a clock distribution circuit for a semiconductor integrated circuit comprising:

an input driver 11 for outputting a signal; a buffer 12 for receiving an output of the driver 11 (fig. 1, column 7, lines 10-20), wherein the driver 11 extends directly from the first area into the buffer 12 to provide a clock distribution circuit and can realize reduction in skew. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Applicant Admitted Prior Art (Figs. 1 and 2) to provide the driver 11 extends directly from the first area into the buffer 12, as shown by Yoshitake to make a direct contact and avoid the links.

- Regarding claims 2 and 3, Applicants' prior art Figure 2 discloses the alignment link comprises a wiring trace and a common area 35 of integrated circuit real estate.
- Regarding claims 4 and 5, Applicants' prior art Figure 1 discloses the first port
 and second port are located in a first and second area respectively of integrated circuit
 real estate.
 - Regarding claim 18, Applicants' prior Fig. 2 discloses the alignment

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means comprises a wiring trace and signal buffering circuitry and occupy a common area 35 of integrated circuit real estate.

- Regarding claim 20, Applicants' prior art Fig. 2 discloses the first port and second port are located at a substantial distance to each other relative to overall integrated circuit estate.
- 3. Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art (Figs. 1-2) in view of Yoshitake (U.S. Pat. 6043704) and further in view of Mizuno et al. (U.S. Pat. 6140686).
- Regarding claims 6 and 7, Applicant Admitted Prior Art disclose an integrated circuit (Figs. 1 and 2) comprising:

a first port 10-13 located in a first area of integrated circuit real estate, for outputting a signal;

a second port 14, 15, 16 and 17 located in a second area of integrated circuit real estate, for receiving the signal;

a common area 35 comprising an alignment link 30, 31, 32 and 33 for electrically connecting the first port with the second port;

the second port extends directly into the common area from a second area;

the alignment link comprises a signal buffer for buffering a signal traveling along the alignment link between the first port and the second port. However, Applicant Admitted Prior Art (Figs. 1 and 2) fail to disclose the first port extends directly into the common area from a first area.

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Yoshitake discloses a clock distribution circuit for a semiconductor integrated circuit comprising:

an input driver 11 located in a first area of integrated circuit real state, for outputting a signal; a buffer 12 (fig. 1, column 7, lines 10-20), wherein the driver 11 extends directly from the first area into the buffer 12 to provide a clock distribution circuit and can realize reduction in skew. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Applicant Admitted Prior Art (Figs. 1 and 2) to provide the driver 11 extends directly from the first area into the buffer 12, as shown by Yoshitake to make a direct contact and avoid the links.

Applicants' prior art (figs. 1-2) and Yoshitake fail to disclose the integrated circuit real estate comprises multi-levels. Mizuno et al. disclose the integrated circuit (Figs. 1, 21 and abstract) comprises multi-levels wherein the multi-levels comprise a semiconductor level and a wiring level, the semiconductor level forms a buffer and control circuit so that the frequency of the oscillation output corresponds to the frequency of the clock signal (abstract) and the wiring levels 110,111, 112, 113 (column 2, lines 55-61) provide the power supply voltage to the circuit block 300 (Fig. 1). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the ICs of Applicants' prior art (figs. 1 and 2) and Yoshitake such that the integrated circuits real estate comprise multi-levels to maintain the frequency of the signal from the clock to the oscillation and provide the power supply voltage to the circuit block shown by Mizuno et al.

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• Regarding claim 8, Mizuno et al. disclose the semiconductor level comprises the signal buffer (abstract).

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- Regarding claim 9, the limitation that the wire-tracing level comprises the first port and second port is a design choice.
- Regarding claim 10, Mizuno et al. disclose the wiring level comprises a plurality of wiring levels 110, 111, 112 and 113 (Figs. 1 and 21, column 2, lines 55-61).

Response to Arguments

Applicant's arguments filed 10/28/02 have been fully considered but they are not persuasive.

The applicant argues that Yoshitake does not teach, disclose or suggest a first port extending directly into a common area from the first area and a second port extending directly into a common area.

Yoshitake discloses a clock distribution circuit for a semiconductor integrated circuit comprising:

an input driver 11 for outputting a signal; first buffer 12 for receiving an output of the driver 11 (fig. 1, column 7, lines 10-20), wherein the driver 11 extends directly from the first area into first buffer 12 and second buffer 13 for receiving an output of the first buffer 12, wherein second buffer 13 extending directly into the first buffer 12.

Applicant Admitted Prior Art disclose an integrated circuit (Figs. 1 and 2) comprising:

a first port 10-13 for outputting a signal;

a second port 14, 15, 16 and 17 for receiving the signal;

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a common area 35 comprising an alignment link 30, 31, 32 and 33 for electrically connecting the first port with the second port;

the second port extends directly into the common area from a second area; the alignment link comprises a signal buffer for buffering a signal traveling along the alignment link between the first port and the second port. However, Applicant Admitted Prior Art (Figs. 1 and 2) fail to disclose the first port extends directly into the common area from a first area.

Yoshitake discloses a clock distribution circuit for a semiconductor integrated circuit comprising:

an input driver 11 for outputting a signal; a buffer 12 for receiving an output of the driver 11 (fig. 1, column 7, lines 10-20), wherein the driver 11 extends directly from the first area into the buffer 12 to provide a clock distribution circuit and can realize reduction in skew. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Applicant Admitted Prior Art (Figs. 1 and 2) to provide the driver 11 extends directly from the first area into the buffer 12, as shown by Yoshitake to make a direct contact and avoid the links.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DiLinh Nguyen whose telephone number is (703) 305-6983. The examiner can normally be reached on 8:00AM - 6:00PM (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703) 308-4918. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

DLN December 23, 2002

SUPERVICORY COMMENT